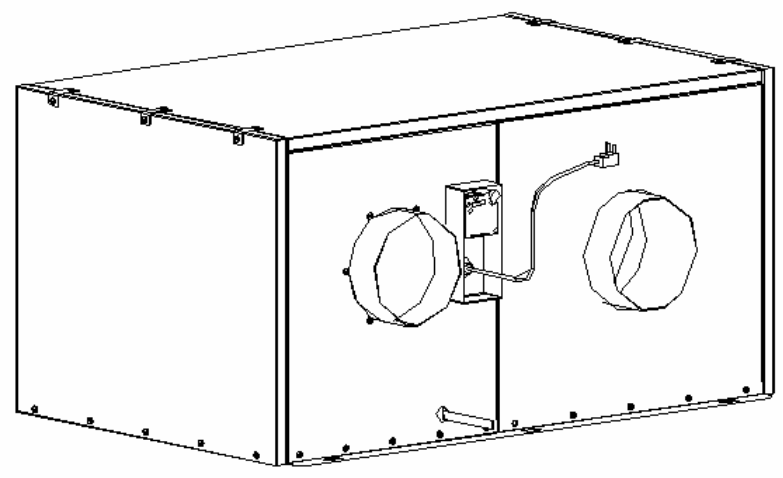
WINEMATE *Ducted System*

Installation, Operation & Care Manual

VINO4500DS
VINO6500DS
VINO8500DS



Vinotemp International Corp.
www.vinotemp.com

READ AND SAVE THESE INSTRUCTIONS

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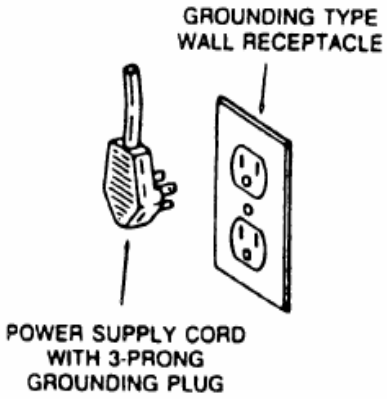
Important Safety Information

⚠ WARNING

To avoid the risk of electrical shock, property damage, personal injury or death:

- The power cord must be plugged into a 3-prong grounding-type wall receptacle, grounded in accordance with the National Electrical Code, ANSI/NFPA 70 - latest edition and local codes and ordinances.
- It is the personal responsibility of the consumer to have a proper 3-prong wall receptacle installed by a qualified electrician.
- DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER CORD GROUNDING PRONG.
- A separate adequately fused and grounded circuit should be available for this appliance.
- Do not remove any grounding wires from individual components while servicing, unless the component is to be removed and replaced. *It is extremely* important to replace all grounding wires when components are replaced.



⚠ WARNING

ELECTRIC SHOCK HAZARD

Disconnect electric supply from appliance before servicing.

Replace all panels before operating.

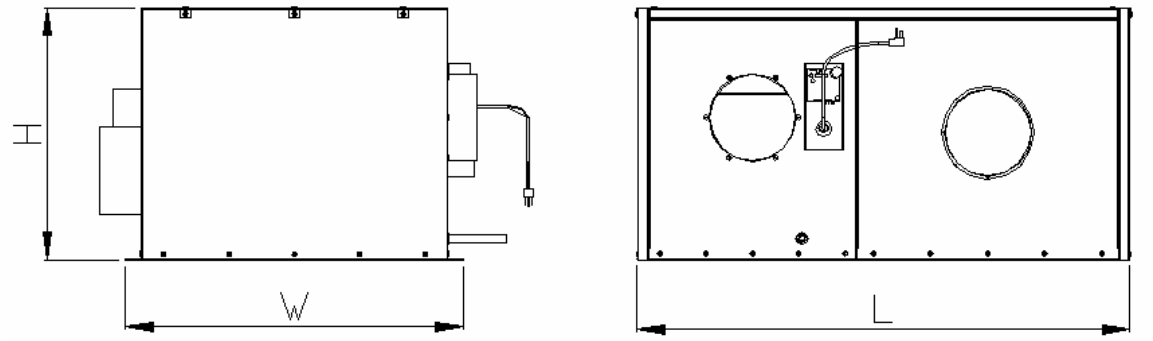
Failure to do so could result in death or electrical shock.

- **DO NOT USE A GROUND FAULT INTERRUPTER (GFI).**
- **A DEDICATED 20 AMPCIRCUIT IS HIGHLY RECOMMENDED.**

Feature Description

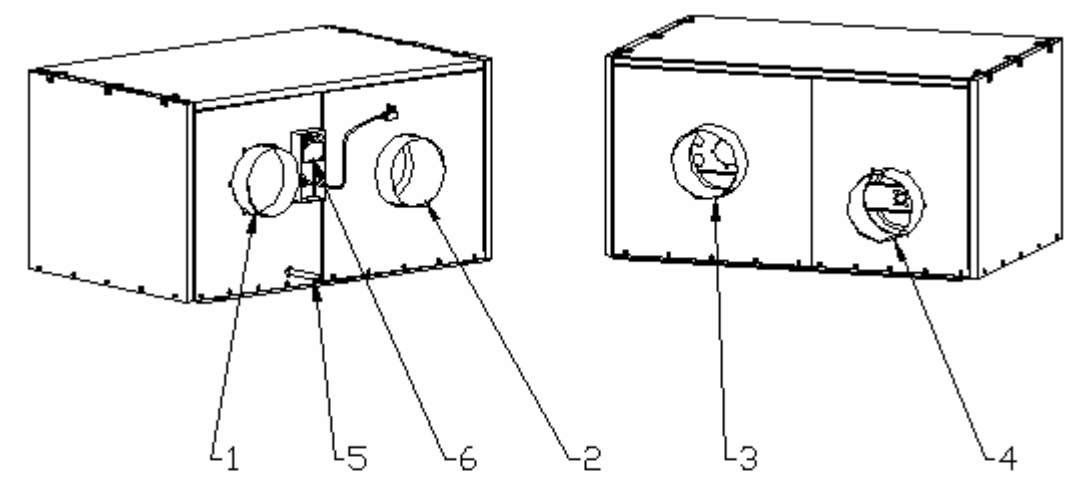
- The WINEMATE ducted cooling system is designed and used to provide a stable temperature between 55~65 °F for a properly insulated room at a normal environment.
- The wine room space will maintain humidity of 50~70% RH even when the environment becomes dry or humid.
- These temperatures and humilities are optimized for long term storage of wine, fur and tobacco.
- Ducted cooling systems are designed for both outdoor and indoor installation.
- Back-curved impeller fans are good for 50 ft long duct use to cut the operation noise.
- Self-contained ready for use with no extra tubing in field.

The dimension and capacity are specified as follows:



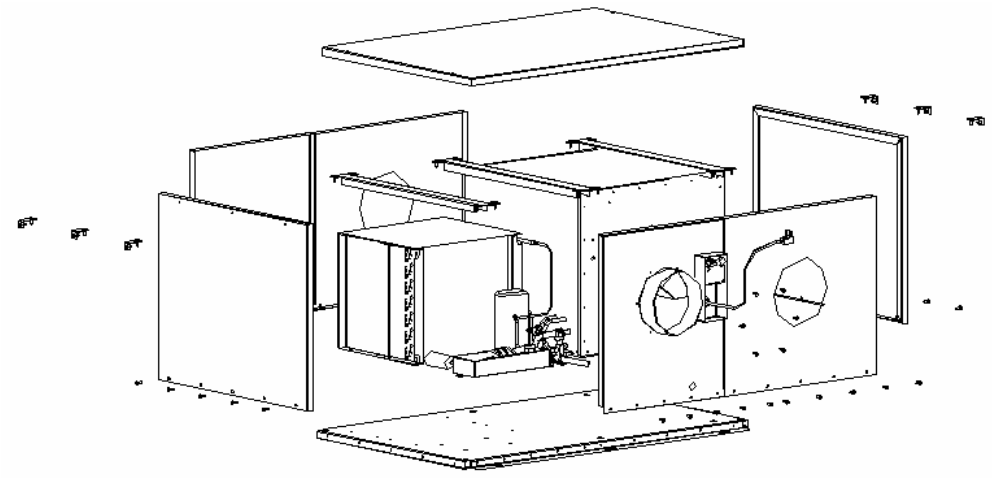
UNIT DIMENSIONS

Model	Capacity (Btu/h) 55/90°F	Electrical	Refrigerant	L"XW"XH"	Weight (lb)
VINO4500DS	4500	115V 60HZ 8A	R134a	45X31X23	96
VINO6500DS	6500	115V 60HZ 14A	R134a	45X31X23	170
VINO8500DS	8500	115V 60HZ 17A	R134a	45X31X23	220

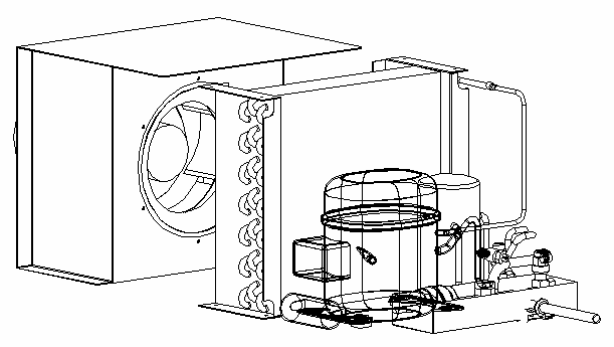


1. FRESH–AIR INTAKE (CONDENSING UNIT)
2. RETURN–AIR INTAKE (EVAPORATORUNIT)
3. COLD–AIR SUPPLY (EVAPORATOR UNIT)
4. HOT–AIR EXHAUST (CONDENSING UNIT)
5. DRAIN TUBE 6. DIGITALCONTROLLER

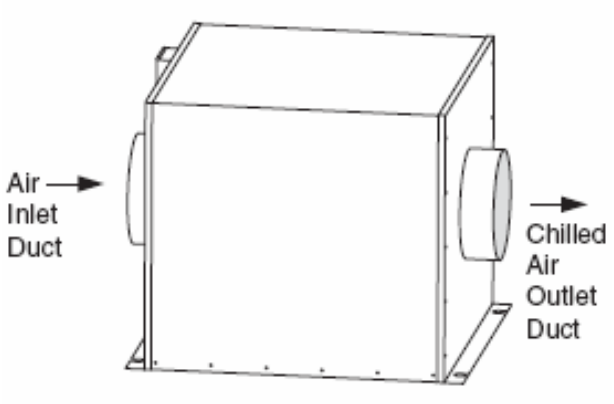
FEATURES



EXPLODED VIEW



CONDENSING UNIT



EVAPORATOR UNIT

Installation Instruction

⚠ WARNING

Always check wiring harness connections before initiating any test procedures.

Disconnect electric power from the appliance before performing any maintenance or repairs.

Voltage checks should be made by inserting meter probes beside the wires in the connector blocks with the electric power source on and the connector block plugged in.

Resistance checks should be made on components with the electric power off and the connector block disconnected.

1. Location

- WINEMATE ducted system is shipped ready for use
- Place the unit in a properly ventilated location. If it is not, heat exhausted by the condensing unit will build up and the cooling system will not operate properly.
- Leave minimum 3 feet clearance between the exhaust pipe and the wall.
- Leave minimum 1 foot clearance for the fresh air supply pipe.
- Air flow from the cold air discharge pipe should be unobstructed for at least 1 foot.
- Unit should be elevated to avoid possible flooding and shaded from direct sun. It should not be exposed to temperatures higher than 125 °F or lower than 20 °F.
- Overall combined duct length can be up to 50 ft long.

2. Refrigeration Piping

Model	Drain Tube Diameter (inch)	Air Pipe Diameter (inch)
VINO4500DS	1/2	8
VINO6500DS	1/2	8
VINO8500DS	1/2	8

3. Air Sensor

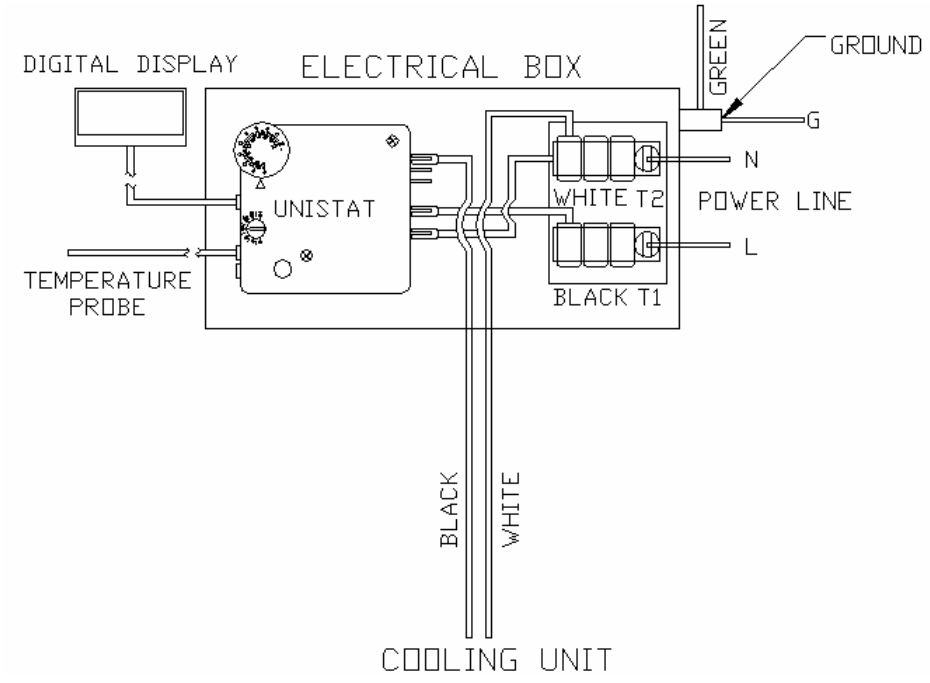
The air sensor is recommended to place in the wine room. If it is in a return duct, the temperature differential may lead to erroneous readings.

4. Electrical Wiring

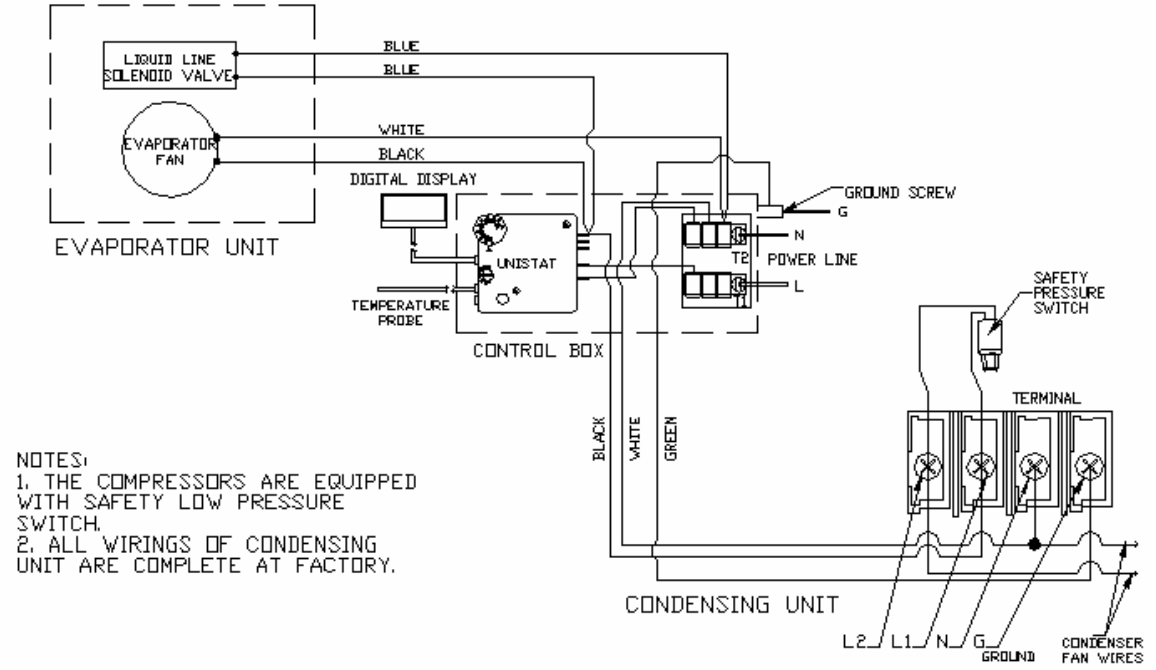
- We strongly recommend against the use of an extension cord. However, if you still select to use an extension cord, it is absolutely necessary that it is a UL LISTED 3-wire grounding type appliance extension cord. The marked rating of the extension cord should be 115 V, 20 A. or equivalent and not greater than 15ft in length.

1) Customer Wiring

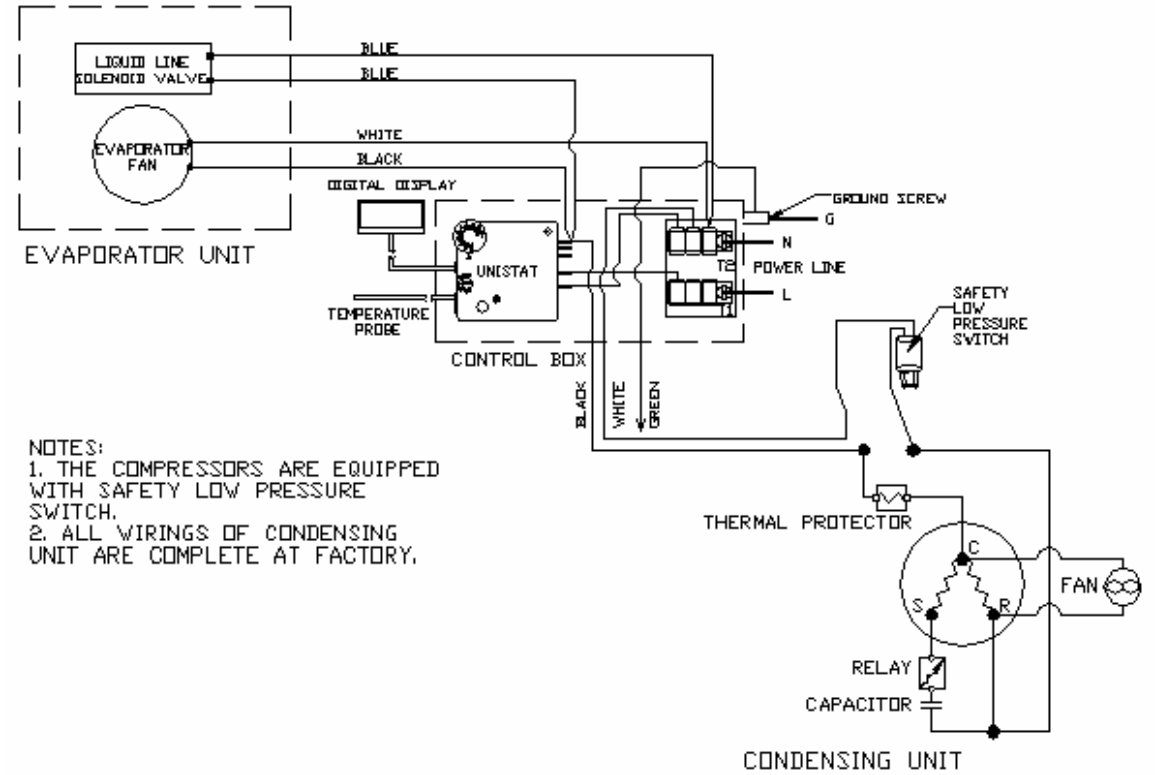
- If the air sensor can not reach the wine room because of the distance between the cooling unit and wine room, you need to remount the electrical box.
- Remove the 3 black, white and green wires that come from the cooling unit in the electrical terminal
- Remove the electrical box and mount it close to the wine room so the air sensor can reach the wine room
- Use extra wires to connect the terminal in the electrical box and the 3 white, black and green wires from the cooling unit.



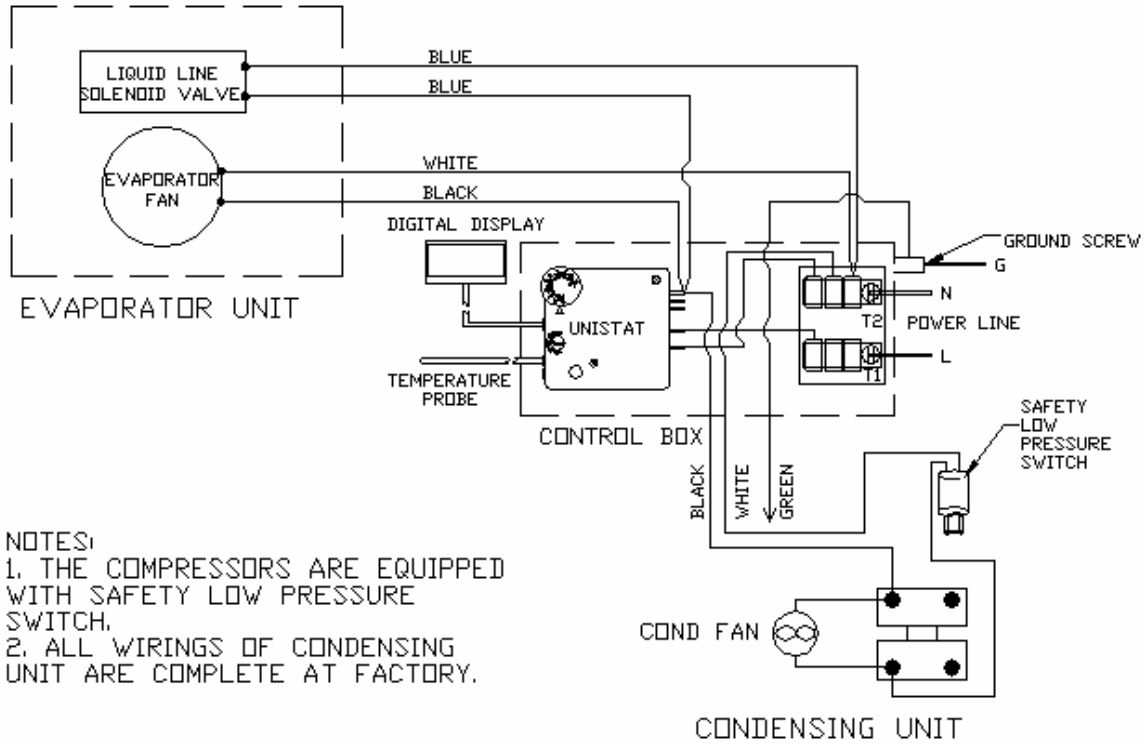
2) Factory Wiring



VINO4500DS Electrical Wiring Diagram



VINO6500DS Electrical Wiring Diagram



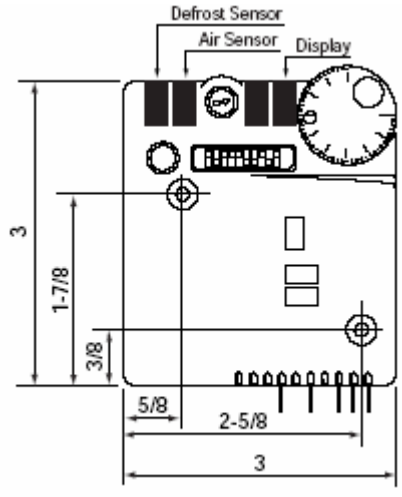
VINO8500DS Electrical Wiring Diagram

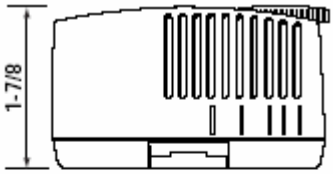
Use & Temperature Control

1. Temperature Setting

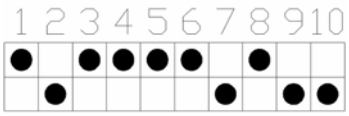
- **Set the temperature at 55 °F for the optimum aging of wine**
- **On initial start-up, the time required to reach the desired temperature will vary, depending on the quantity of bottles, temperature setting and surrounding temperature.**
- **Allow 24 hours to stabilize the temperature for each new temperature setting operation**

2. Use of the controller





Dial Number	Low Temp.		Medium Temp.	
	° F	° C	° F	° C
10	-33	-35	14	-10
9	-24	-30	20	-7
8	-15	-25	26	-3
7	-5.4	-20	32	0
6	3.8	-15	38	3
5	13	-10	44	7
4	22	-5	50	10
3	31	0	56	13
2	41	5	62	16
1	50	10	68	20



Dip Switch Setting

1) Set Point
Rotate the circular selector in correspondence with the arrow placed nearby. The selector represents -33°F to 50°F (-35°C to +10°C) for low temperature models, and 14°F to 68°F (-10°C to +20°C) for medium temperature models. “10” is the coldest setting, “1” is the warmest.

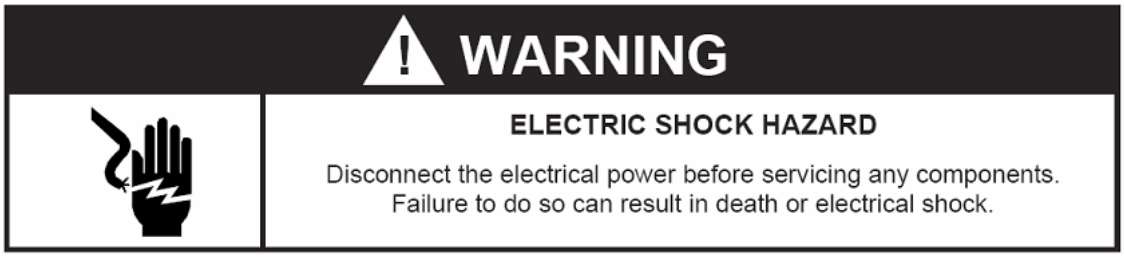
2) Differential
It is possible to modify the differential from 1°F minimum to 12.5°F maximum. Simply shift the first two dip-switches to the ON or OFF position according to the wanted value.

3) Defrost management and setting
A defrost can be activated manually, by pressing the “man. def.” button, or cyclically, the interval set by the “def.intvl” rotary switch at the top left with respect to Set Point selector. The interval can be selected from 1 to 12 hours in 1 hour steps. If the selector is positioned on the “0”, the cyclic defrost is disabled.

Note: manual defrost reinitializes the time required for successive cyclic defrosting. The selections are effective beginning from the successive cycle. For an immediate effect, it is necessary to turn power to the UniStat off for a few seconds.
It is possible to choose between an electric defrost (the compressor is deactivated and the defrost relay is activated) and a hot gas defrost (both the compressor and the defrost relay are activated); The defrost termination, can take place by time (from 1 to 60 min.) or by temperature (from 0 to 86°F) if the defrost sensor is utilized for the correct programming). If the defrost sensor is disconnected, interrupted or breaks down for any reason, the defrost terminates after a maximum time of 90 minutes if it is resistance-based, or 40 minutes if it is hot-gas based.
The instrument stores the defrost state every 15 minutes to allow restart after power loss.

4) Compressor safety function
If the function is enabled, a minimum three minute interval is ensured between deactivation and successive restart of the compressor.
If the function is enabled, the compressor is not energized for three minutes after controller power up.
The function is also active in hot-gas defrost mode.

Care Guide


WARNING
ELECTRIC SHOCK HAZARD
Disconnect the electrical power before servicing any components.
Failure to do so can result in death or electrical shock.

In general, always unplug system or disconnect power while doing care.

1. Coil Cleaning

- Clean the condenser coil regularly. Coil may need to be cleaned at least every 6 months.
- Unplug the system or disconnect power.
- Use a condenser brush or a vacuum cleaner with an extended attachment to clean the coil when it is dusty or dirty.
- Plug cooling system or reconnect power.

2. Moisture Removing

- Remove the extra condensate if it is accumulated in the wine cellar at high ambient temperature and humidity.

Troubleshooting

This Troubleshooting Chart is not prepared to replace the training required for a professional refrigeration service person, not is it comprehensive

Troubleshooting Chart

Complaint	Possible Causes	Response
1. Unit not running		
	a. Power cord unplugged b. No power to unit c. Temperature setting high d. Low voltage. e. Incorrect or loose wirings. f. Defrost light blinking g. Running light blinking	a. Check for power cord plug b. Check power at receptacle & fuses c. Lower temperature setting d. Contact an authorized electrician e. Check all wirings and connections f. Under defrost g. Call service for failed components
2. Compressor stopping and starting but short running time		
	a. Incorrect temperature setting b. Incorrect voltage c. Failed thermistor d. Failed components e. Improper condenser airflow f. Dirty condenser g. Overcharge of refrigerant h. Discharge or suction pressure too high	a. Set 55 to 60 °F b. Check for voltage c. Check thermistor by placing it in ice water and measuring resistance d. Check compressor windings, start relay and overload protector. e. Check for condenser fan f. Clean condenser g. Call service for removing refrigerant h. Call service for OEM information
3. Fan motor running but compressor not running		
	a. Incorrect power supply b. Incorrect or loose wirings c. Failed components d. Liquid refrigerant in the compressor	a. Check for proper voltage b. Check all wirings and connections c. Check start relay, start capacitor, overload protector, compressor. d. Call service for OEM information.
4. Compressor running but fan not running		
	a. Fan blade bond b. Incorrect or loose wirings c. Failed motors	a. Check for proper clearance b. Check all wirings c. Call service for checking open or shorted windings
5. No cooling but compressor and fan running		
	a. Evaporator airflow restriction b. Refrigerant leakage c. Refrigeration system restriction	a. Check for airflow through evaporator b. Check for loss of refrigerant c. Call service for checking restrictions
6. Temperature too high or unit running too long		
	a. Improper evaporator or condenser airflow b. Dirty Condenser c. Iced evaporator d. Malfunctioning fans e. Improper seals f. Improper area to be cooled.	a. Check for air restrictions b. Clean condenser c. Defrost and reset temperature d. Check for both fans e. Check for gasket and door opening f. Check for excessive load incorrect installation

	g. Low voltage h. Operating 60 Hz unit at 50Hz i. Sealed system problem j. Undercharge or overcharge	g. Check power supply h. Use proper 60 Hz i. Call service for checking loss of refrigerant or restrictions j. Call service to add or remove refrigerant
7. House circuit tripping		
	a. Incorrect fuse or breaker b. Incorrect wirings c. Failed components	a. Check for proper fuse or breaker b. Check for wirings and connections c. Call service
8. Noisy operation		
	a. Mounting area not firm b. Loose parts c. Compressor overloaded due to high ambient temperatures or airflow restriction d. Malfunctioning components	a. Add support to improve installation b. Check fan blades, bearings, cabinet washers, tubing contact and loose screws. c. Check for airflow blockage d. Call service for checking Internal loose, inadequate lubrication and incorrect wirings

Customer Support

If you still have problems, please contact us at:

Vinotemp International
17631 South Susana Road
Rancho Dominguez, CA 90221
Tel: (310) 886-3332
Fax: (310) 886-3310
Email: info@vinotemp.com

Warranty

Thank you for choosing a Vinotemp wine cellar.

Please enter the complete model and serial numbers in the space provided:

Model_____
Serial No._____

Attach your purchase receipt to this owner's manual.

1. Limited Warranty

VINOTEMP warrants its products, parts only, to be free from defects due to workmanship or materials under normal use and service for twelve months after the initial sale. If the product is defective due to workmanship or materials, is removed within twelve months of the initial sale and is returned to VINOTEMP, in the original shipping carton, shipping prepaid, VINOTEMP will at its option, repair or replace the product free of charge.

This warranty constitutes the entire warranty of the VINOTEMP with respect to its products and is in lieu of all other warranties, express or implied, including any of fitness for a particular purpose. In no event shall VINOTEMP be responsible for any consequential damages what is so ever. Any modification of VINOTEMP products shall void this warranty.

Service under Warranty

This service is provided to customers within the continental UNITED STATES only. VINOTEMP cooling units are warranted to produce the stated number of BTU/H. While every effort has been made to provide accurate guidelines, VINOTEMP can not warranty its units to cool a particular enclosure.

In case of failure, VINOTEMP cooling units must be repaired by the factory or its authorized agent. Repairs or modifications made by anyone else will void the warranty.

Should a VINOTEMP cooling unit fail, contact the dealer for instructions. Do not return the unit to the factory without authorization from VINOTEMP. If the unit requires repair, re-pack it in the original shipping carton and return it to the factory, shipping prepaid. VINOTEMP will not accept COD shipments. If the unit is determined to be faulty and is within the twelve month warranty period

VINOTEMP will, at its discretion, repair or replace the unit and return it free of charge to the original retail customer. If the unit is found to be in good working order, or beyond the initial twelve month period, it will be returned freight collect.

2. Limitation of Implied Warranty

VINOTEMP'S SOLE LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO, AT OUR OPTION, REPAIRING OR REPLACING OF UNIT.

VINOTEMP SHALL NOT BE LIABLE FOR:
DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE UNIT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE UNIT, LOSS OF TIME OR COMMERCIAL LOSS, ANY OUTER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

THIS WARRANTY IS EXCLUSIBE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR INPLIED, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

While great effort has been made to provide accurate guidelines VINOTEMP cannot warrant its units to properly cool a particular enclosure. Customers are cautioned that enclosure construction, unit location and many other factors can affect the operation and performance of the unit. There for suitability of the unit for a specific enclosure or application must be determined by the customer and cannot be warranted by VINOTEMP.